HP Photosmart R967
Digital Camera

User Guide

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Contents

1 **Getting started**.....6
Camera top and back 6
Camera front and bottom.....7
Camera dock and insert.....8
Before taking pictures.....8
Install the battery.....8
Charge the battery.....9
Turn on the camera.....9
Choose the language.....9
Set the region.....9
Set the date and time.....9
Install and format an optional memory card.....10
Install the software.....10
Using your camera.....11
2 **Taking pictures and recording video clips**.....13
Taking still pictures.....13
Recording video clips.....14
Instant Review.....14
Auto focus and exposure.....14
Focusing on the subject.....14
Optimizing focus.....15
Using Focus Lock.....16
Optimizing exposure.....16
Other recommendations.....16
Using the focus range settings.....17
Using Manual Focus.....17
Using zoom.....17
Optical zoom.....18
Digital zoom.....18
Setting the flash.....19
Red eye.....19
Using the shooting modes.....19
Using Panorama mode.....21
Using Manual shooting mode.....21
Using My Mode.....22
Using the Capture Menu.....23
Using the Self-Timer settings.....26
Using the Burst setting.....27
Exposure Compensation.....27
Adaptive Lighting.....27
White Balance.....28
ISO speed.....28

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3 **Reviewing images and video clips**....29
Using Playback....29
Saving frames from video clips....30
Viewing thumbnails....30
Magnifying images....30
Using the Playback Menu....30
Deleting images....31
Viewing image information....32
Viewing slideshows....32
Stitching panoramas....33
Recording audio....33
4 **Using the Design Gallery Menu**....34
Applying artistic effects....34
Modifying colors....35
Adding borders....35
Removing red eyes....36
Cropping images....36
5 **Transferring and printing images**....38
Transferring images with HP Photosmart Software....38
Transferring images without HP Photosmart Software....38
Connecting to the computer....39
Using a memory card reader....39
Printing images from the camera....39
Printing panoramas from the camera....40
6 **Using HP Photosmart Express**....41
Using the Photosmart Express Menu....41
Tagging images as Favorites....42
Marking images for printing....42
Buying prints online....43
Sharing images....43
Setting up online destinations in the camera....43
Sending images to online destinations....44
7 **Using the Setup Menu**....45
8 **Troubleshooting**....47
Resetting the camera....47
Problems and solutions....47
9 **Product support**....52
Helpful websites....52
Getting assistance....52
A **Managing batteries**....54
Top points about batteries....54
Extending battery life....54
Safety precautions for using batteries....54
Power indicators....55
Number of shots per battery type....55
Recharging the Lithium Ion battery....56
Safety precautions for recharging batteries....56
B **Specifications**....58
Memory capacity....60
Image quality....60

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Video quality....60
Index....61

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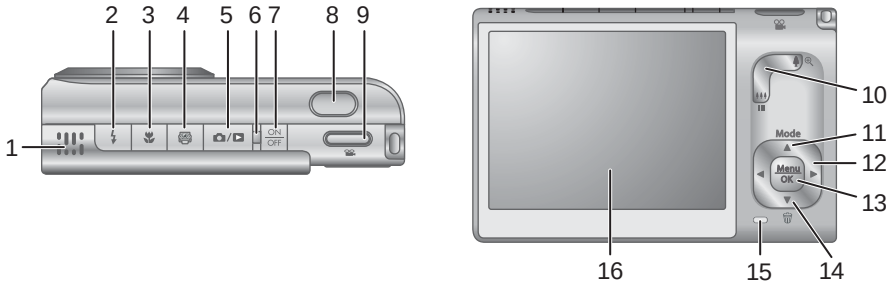
1 Getting started

Use this section to get familiar with the camera controls, set up your digital camera for use, and begin taking pictures.

Camera top and back



1	Speaker.
2	**Flash** button—See *Setting the flash* on page 19.
3	**Focus** button—See *Using the focus range settings* on page 17.
4	**Photosmart Express** button—See *Using HP Photosmart Express* on page 41.
5	**Live View/Playback** button—Switches between **Live View** and **Playback** (see *Taking pictures and recording video clips* on page 13 and *Reviewing images and video clips* on page 29).
6	Power light.
7	ON/OFF button.
8	**Shutter** button.
9	**Video** button.
10	**Zoom** lever—Accesses **Zoom** (see *Using zoom* on page 17), **Thumbnails** (see *Viewing thumbnails* on page 30), and **Magnify** (see *Magnifying images* on page 30) functions.
11	**Mode** button—Press ▲ to access the **Shooting Mode** menu while in **Live View** (see *Using the shooting modes* on page 19).
12	▲▼ and ◀▶ buttons—Scroll through menus and images.
13	Menu OK button—Displays camera menus, selects options, and confirms actions.

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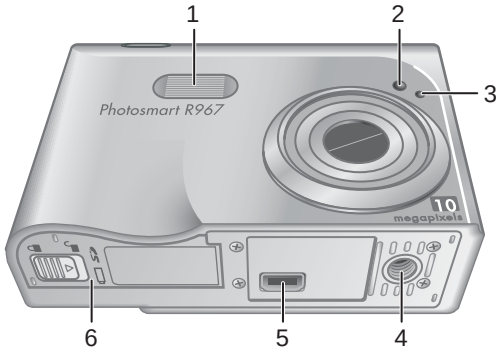
14	**Delete** button—Press ▼ to access the **Delete** function while in **Playback**.
15	Battery Charging light.
16	Image Display.

Camera front and bottom



1	Flash.
2	Self-Timer/Focus Assist light—See *Using the Self-Timer settings* on page 26.
3	Microphone.
4	Tripod mount.
5	Dock connector.
6	Battery/Memory card door.

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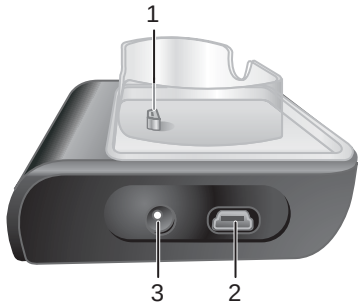
Camera dock and insert

When setting up the dock for use with this camera, install the dock insert that shipped in the camera box. Attach the dock insert to the top of the camera dock by snapping it into place.



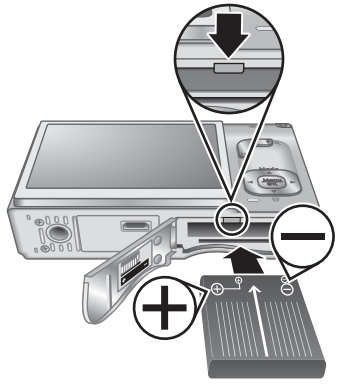
1	Camera/dock connector.
2	USB connector.
3	Power adapter connector.

Before taking pictures

Complete the following procedures before taking pictures or recording video clips.

Install the battery

1. Open the Battery/Memory card door by sliding the door latch as indicated on the Battery/ Memory card door.
2. Insert the battery in the larger slot, pushing the battery in until the latch catches.
3. Close the Battery/Memory card door.



Note Turn off the camera before removing the battery. Fully charge the battery before using it the first time (see *Charge the battery* on page 9).

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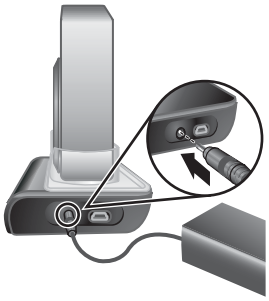
Charge the battery

You can charge a battery in the camera using the AC power adapter connected to the camera dock, or in the extra battery bay of an optional HP Photosmart Premium camera dock.

1. Connect the AC power adapter to the dock, then plug it into an electrical outlet.
2. Put the camera in the dock. The camera's blinking Battery Charging light indicates that the battery is charging (if you are charging in an optional HP Photosmart Premium dock, the dock's Battery Charging light blinks). The battery is fully charged when the Battery Charging light turns on solid (see *Recharging the Lithium Ion battery* on page 56 for information on charging times).



Note You can also charge the battery using an optional HP Photosmart quick recharger.

Turn on the camera

To turn on the camera, press the ON/OFF button.

Choose the language

Use ▲▼ ◀▶ to choose the language you want, then press Menu/OK.

To change the language later, use the **Setup** menu (see *Using the Setup Menu* on page 45).

Set the region

Along with the **Language** setting, the **Region** setting determines the default date format and the format of the video signal for displaying camera images on a television when connected through an optional HP Photosmart Premium dock or wireless dock base (see *Using the Setup Menu* on page 45).

Use ▲▼ to choose the region you want, then press Menu/OK.

Set the date and time

Accurately setting the date and time will help you locate images once you have transferred them to your computer, and will ensure that images are accurately marked if

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you use the date and time imprint feature. See **Date & Time Imprint** under *Using the Capture Menu* on page 23.

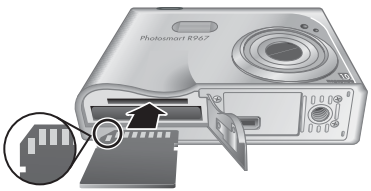
1. Use ▲▼ to adjust the highlighted value.
2. Press Menu/OK when the date, time, and format settings are correct, then press Menu/OK again to confirm.
3. Use ◀▶ to move to the other selections and repeat Step 1 until the date and time are set correctly.

To change the date and time later, use the **Setup Menu** (see *Using the Setup Menu* on page 45).

Install and format an optional memory card

This camera supports standard and high speed, HP-branded Secure Digital (SD) memory cards, 8MB to 2GB.

1. Turn off the camera and open the Battery/Memory card door.
2. Insert the optional memory card in the smaller slot as shown. Make sure the memory card snaps into place.
3. Close the Battery/Memory card door and turn on the camera.



Always format new memory cards before first use. Formatting removes all images from the memory card, so make sure to transfer existing images before formatting (see *Transferring and printing images* on page 38).

1. With the camera turned on, press 📷/▶ until ▶ appears briefly in the upper right corner of the Image Display. This indicates you are in **Playback**.
2. Press ▼ to access the 🗑 **Delete** sub-menu.
3. Use ▼ to select **Format Card**, then press Menu/OK.
4. Use ▼ to select **Yes**, then press Menu/OK to format the card.

Note Once you install a memory card, all new images and video clips are stored on the card, rather than in internal memory. To use internal memory and view images stored there, remove the memory card. To transfer images from internal memory to an optional memory card, see **Move Images to Card** under *Using the Playback Menu* on page 30.

For information about supported memory cards, see **Storage** under *Specifications* on page 58.

Install the software

The HP Photosmart Software provides features for transferring images and video clips to your computer, as well as features for modifying stored images (remove red eyes, rotate, crop, resize, adjust image quality, and more). See the **Help** feature in the HP Photosmart Software.

Note If you have trouble installing or using the HP Photosmart Software, see the HP Customer Care website for more information: www.hp.com/support.

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Windows

If your Windows computer:

- Has a minimum of 128MB of RAM, Windows XP or x64, and Internet Explorer 5.5 Service Pack 2 or higher (Internet Explorer 6 is recommended), you have the option to install either HP Photosmart Premier or HP Photosmart Essential.
- Has a minimum of 128MB of RAM, Windows 2000, and Internet Explorer 5.5 Service Pack 2 or higher (Internet Explorer 6 is recommended), HP Photosmart Essential is installed.

1. Close all programs and temporarily disable any virus protection software.
2. Insert the HP Photosmart Software CD into the CD drive and follow the on-screen instructions. If the installation screen does not appear, click **Start**, click **Run**, type **D:\Setup.exe**, where **D** is the letter of your CD drive, then click **OK**.
3. When the software has finished installing, re-enable virus protection software.

Macintosh

To Install the HP Photosmart Mac Software, your Macintosh computer must meet the system requirements as stated on the camera packaging.

1. Insert the HP Photosmart Software CD into the CD drive.
2. Double-click the CD icon on the computer desktop.
3. Double-click the installer icon, then follow the on-screen instructions.

About the HP Photosmart Software

The CD that came with your camera contains the following versions of HP Photosmart Software:

- HP Photosmart Premier Software (for Windows XP and x64 systems with at least 128MB of RAM). This version of the software includes some extra features that let you:
  - Process images tagged as **Favorites** for printing, sending, and buying prints online. See *Tagging images as Favorites* on page 42.
  - Pause a video and print a frame from it.
- HP Photosmart Essential Software (for Windows 2000, Windows XP, and x64 systems with at least 128MB of RAM). This version does not have the extra features specified in HP Photosmart Premier Software.
- HP Photosmart Mac Software (for Macintosh systems).

To learn more about the software features and how to use them, see the **Help** feature in the HP Photosmart Software.

Using your camera

Now that you've completed setup, you can take and review still images and video clips.

For information on taking still pictures and capturing video clips	See *Taking still pictures* on page 13 and *Recording video clips* on page 14.
For information on reviewing images and video clips on the camera	See *Reviewing images and video clips* on page 29.

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For information on enhancing your images	See *Using the Design Gallery Menu* on page 34.
For information on transferring images from your camera to a computer	See *Transferring images with HP Photosmart Software* on page 38.
For information on printing images	See *Printing images from the camera* on page 39.

Tip To switch between **Live View** and **Playback**, press / .

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2 Taking pictures and recording video clips

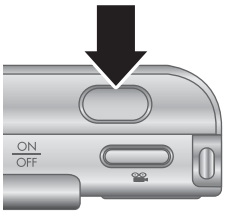
Live View allows you to frame pictures and video clips in the Image Display. To activate **Live View**, press / until appears briefly in the upper right corner of the Image Display. The **Live View** display looks like this:

1	AUTO	**Shooting mode** indicator.
2	SD	Memory card indicator.
3		Battery level indicator (see *Power indicators* on page 55).
4	**12**	Pictures remaining count.
5	[ ]	Focus brackets (see *Auto focus and exposure* on page 14).

Taking still pictures

You can take a picture almost any time the camera is on, regardless of what is shown on the Image Display.

1. Press / until appears briefly in the upper right corner of the Image Display. This indicates you are in **Live View**.
2. Frame the subject for your picture.
3. Press the **Shutter** button halfway down to measure and lock the focus and exposure. The focus brackets in the Image Display turn solid green when focus is locked (see *Auto focus and exposure* on page 14).
4. Press the **Shutter** button all the way down to take the picture.
5. To add an audio clip of up to 60 seconds, continue holding the **Shutter** button down, then release it when done.



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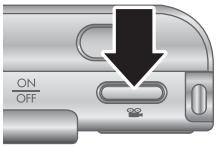
Recording video clips

1. Press / until appears briefly in the upper right corner of the Image Display. This indicates you are in **Live View**.
2. Frame the subject.
3. Press and release the **Video** button.
4. To stop recording video, press and release the **Video** button again.



Instant Review

After you have taken a still image or recorded a video clip, the camera displays it in **Instant Review**. If you want to delete the image or video clip, press ▼, select **This Image** from the **Delete** sub-menu, then press Menu OK.

If appears in the lower left corner, press ▶ to display **Image Advice** (see **Image Advice** under *Using the Playback Menu* on page 30) for tips on improving images taken under similar conditions. You can also use these tips to retake the scene and improve the image.

Auto focus and exposure

When you press the **Shutter** button halfway down, the camera automatically measures and locks the focus and exposure. When you auto focus:

Indicator	Description
Green focus brackets	Focus found.
Red focus brackets	Focus not found (see *Optimizing focus* on page 15).
(shaking hand icon)	Long exposure required (see *Optimizing exposure* on page 16).

Focusing on the subject

When set to its default **Multi** focus area setting (see **Auto Focus Area** under *Using the Capture Menu* on page 23), the camera uses five focus regions to determine focus.

The 5 focus zones

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When you press the **Shutter** button halfway down, the camera focuses from the closest distance, then examines other focus regions, displaying those in focus as green brackets. The sample image shows focus in regions one, two, and five.

If the camera keeps focusing on something other than your subject, set **Auto Focus Area** to **Spot** (see **Auto Focus Area** under *Using the Capture Menu* on page 23), then use **Focus Lock** (see *Using Focus Lock* on page 16).

Optimizing focus

When the camera cannot auto focus, the focus brackets turn red. This indicates the picture may be out of focus because the subject is out of the focus range or the scene has low contrast.

For the Normal Focus range

If the camera is set to **Normal Focus** (see *Using the focus range settings* on page 17) and cannot focus, it will still take the picture. Try releasing the **Shutter** button, reframing, and then pressing the **Shutter** button halfway down again. If the focus brackets are still red:

- If the scene has low contrast, use **Focus Lock** (see *Using Focus Lock* on page 16) and aim at a point on the subject that has more colors or crisp edges.
- If the subject is too close (less than 500 mm or 20 in), move farther away from the subject or use the **Macro** or **Auto Macro** focus range (see *Using the focus range settings* on page 17).
- Use **MF Manual Focus** (see *Using Manual Focus* on page 17).

For the Macro focus range

If the camera is set to **Macro** and cannot focus, the camera will not take the picture. Try one of the following:

- Move within the **Macro** range or set the camera to **Auto Macro** or **AF Normal Focus** (see *Using the focus range settings* on page 17).
- In low contrast scenes, use **Focus Lock** (see *Using Focus Lock* on page 16).
- Use **MF Manual Focus** (see *Using Manual Focus* on page 17).

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Using Focus Lock

Use **Focus Lock** to focus on a subject that is not in the center of the picture, to capture action shots more quickly by pre-focusing in the area where the action will occur, or to focus in low light or low contrast situations.

1. Frame the subject for your picture within the focus brackets. In low light or low contrast situations, frame a brighter or higher contrast object.
2. Press the **Shutter** button halfway down.
3. Hold the **Shutter** button halfway down and re-frame.
4. Press the **Shutter** button all the way down to take the picture.

Optimizing exposure

When you press the **Shutter** button halfway down, the camera also measures the light level to set the proper exposure. If the camera determines the scene will require a very long exposure, a shaking hand icon (✋) appears. The camera will take the picture, but it may be blurry because it is difficult to hold the camera still for the length of time required. Try one of the following:

- Set the flash to **Auto Flash** or **Flash On** (see *Setting the flash* on page 19).
- Set the camera on a tripod or stable surface.
- If the subject is out of the flash range or you do not have a tripod, set the shooting mode to **Steady Photo** (see **Steady Photo** under *Using the shooting modes* on page 19).
- Turn on more light.

Other recommendations

If an image does not appear to be in proper focus or exposure when you review it in **Playback**, use **Image Advice** (see **Image Advice** under *Using the Playback Menu* on page 30) to help you determine how to correct the problem for similar images in the future. If you can retake an image, you can follow the suggestions in **Image Advice** to improve the image you capture.

Because focus and exposure are crucial to good images, you might find these other topics useful:

- Topics on blurry, dark, light, or grainy images in *Troubleshooting* on page 47
- *Using the focus range settings* on page 17
- **Auto Focus Area** and **AE Metering** under *Using the Capture Menu* on page 23

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- *Exposure Compensation* on page 27
- *Using Manual Focus* on page 17

Using the focus range settings

To select a focus range setting, press , use ◀▶ to highlight the desired focus range, then press Menu OK.

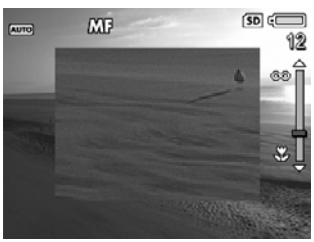
AF	**Normal Focus** (Default)—Use when taking pictures of subjects greater than 500 mm (20 in) away.
	Macro—Use when taking close-up pictures of subjects between 100 mm and 1 m (4.7 to 39.4 in) away.
A	**Auto Macro**—Use when you are not sure if the subject is in the **Macro** or **Normal** focus range.
∞	**Infinity**—Use when taking pictures of distant objects and landscapes.
MF	**Manual Focus**—Allows you to step manually through the full focus range (see *Using Manual Focus* on page 17).

The focus range setting remains in effect until it is changed again, or you turn off the camera.

Using Manual Focus

You may want to use **Manual Focus** in low-light conditions or when you want to fine-tune focus of very close-up subjects.

1. When you select **Manual Focus**, a focus meter and a magnified view help you adjust focus.
2. With arrows surrounding the **Manual Focus** meter, use ▲▼ to adjust the focus. If arrows do not surround the **Manual Focus** meter, use ◀▶ until they do, then use ▲▼ to adjust focus.
3. To change shooting modes while using **Manual Focus**, use ◀▶ until arrows surround the shooting mode icon in the upper left corner, press ▲, use ▲▼ to highlight a shooting mode, then press Menu OK.



Using zoom

Your camera has both optical and digital zoom. Optical zoom physically extends the lens to make the subject of your picture appear closer. After you have extended the lens fully using optical zoom, the camera employs digital zoom. Digital zoom uses no moving lens parts.

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Tip The more you zoom in on the subject of your picture, the more small movements of the camera are magnified (this is called camera shake). If appears when you press the **Shutter** button halfway down, the picture may be blurry. Be sure to hold the camera still or add more light to the scene. Try holding the camera closer to your body or against a steady object, or set the camera on a tripod or stable surface.

Optical zoom

Optical zoom moves the lens between wide angle (1x) and telephoto (3x).

In **Live View**, use the buttons on the **Zoom lever** to control zoom. Press to zoom in and to zoom out.

Digital zoom

In digital zoom, the Image Display shows a yellow frame around the scene and the image quality setting (MP value). As you zoom in, the yellow frame shrinks to indicate the area of the scene the camera will capture, and the MP value decreases to indicate the resolution at which the scene will be captured.

When capturing images using digital zoom, make sure that the MP value shown in the Image Display is appropriate for the size at which you want to print the captured image. For MP values and their recommended print sizes, see **Image Quality** under *Using the Capture Menu* on page 23.

1. In **Live View**, press on the **Zoom lever** to optically zoom to the maximum level, then release the lever.
2. Press and hold until the image you want to capture fills the yellow frame. If you zoom in too far, press .
3. To return to optical zoom, press until digital zooming stops. Release , then press it again.

Note Digital zoom is not available in **Panorama** mode nor when recording video clips.

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Setting the flash

To select a flash setting, press ϟ, use ◀▶ to highlight the desired flash mode, then press Menu/OK.

A ϟ	**Auto Flash** (Default)—The camera uses the flash, if necessary. If you want the camera to remove red eyes if they exist in images, turn on **Red-Eye Removal** (see **Red-Eye Removal** under *Using the Capture Menu* on page 23). For information about red eye, see *Red eye* on page 19.
ϟ	**Flash On**—The camera always uses flash. If the light is behind your subject, use this setting to increase the light on the front of your subject. If you want the camera to remove red eyes if they exist in images, turn on **Red-Eye Removal** (see **Red-Eye Removal** under *Using the Capture Menu* on page 23).
⊘	**Flash Off**—The camera does not use flash. Use this setting to capture poorly lit subjects beyond the flash range or to capture scenes with the existing light.

The **Flash** setting remains in effect until it is changed again, or you turn off the camera.

Note The flash is not available in **Document**, **Landscape**, **Night Scenery**, **Panorama**, **Sunset**, or **Theatre** shooting modes, with the **Burst** setting, nor while recording video clips. In **Night Portrait** shooting mode, the flash is set to **On**.

Red eye

The red-eye phenomenon is caused when light from the flash reflects off the subjects' eyes, which can make human eyes appear red in the captured image. If you turn on 👁 **Red-Eye Removal** (see **Red-Eye Removal** under *Using the Capture Menu* on page 23), the camera examines the image after taking it. If the camera detects red eyes, it then processes the image to remove them.

This examination and processing takes additional time. If you find the additional time too long, you can turn off 👁 **Red-Eye Removal** and remove the red eyes after you have captured the image, using either **Remove Red Eyes** (see **Remove Red Eyes** under *Using the Design Gallery Menu* on page 34) or the HP Photosmart Software that came with your camera.

Using the shooting modes

Shooting modes allow you to optimize shutter settings for the scene you are shooting. Most shooting modes predefine these settings for certain types of scenes, allowing you to take pictures quickly when you do not have the time to specify the settings yourself. Other settings (such as **Aperture Priority**, **Shutter Priority**, and **Manual**) let you specify settings, allowing you complete control for difficult scenes or special effects.

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To select a shooting mode, press ▲ while in **Live View**, use ▲▼ to highlight a shooting mode, then press Menu OK.

AUTO	**Auto Mode** (Default)—For taking good shots quickly, when you do not have time to select a special shooting mode.
	Landscape—For scenes with deep perspective, such as mountain scenes.
	Portrait—For pictures that have one or more people as their primary subject.
	Steady Photo—For minimizing picture blur when the subject is moving or you cannot hold the camera still long enough in moderate to dim light conditions (see *Optimizing exposure* on page 16).
or	**Panorama**—For grand landscapes or group pictures where you need to capture a wide shot that one image cannot capture (see *Using Panorama mode* on page 21).
	Theatre—For capturing images at school programs, concerts, or indoor sporting events without using flash.
	Action—For capturing sporting events, moving cars, or any scene where you want to stop the action.
	Night Portrait—For capturing images of people at night. This mode uses the flash and a long exposure. As a result, you must set the camera on a tripod or stable surface.
	Night Scenery—For capturing night scenes. This mode uses a long exposure with no flash. As a result, you must set the camera on a tripod or stable surface.
	Beach—For capturing scenes at the beach.
	Snow—For capturing scenes in snow.
	Sunset—For capturing outdoor scenes at sunset.
	Document—For capturing flat, textual, or graphical pieces.
Av	**Aperture Priority**—For specifying the aperture setting. This mode lets you select the F-number (aperture) setting using ▲▼, while the camera selects the best shutter speed. If the image will be over- or under-exposed more than 0.5 stops, the F-number and shutter speed turn red. Adjust the F-number until these items turn white. To change to a different shooting mode, press ◀▶ until arrows surround the shooting mode, then press ▲.
Tv	**Shutter Priority**—For specifying the shutter speed. This mode lets you select the shutter speed using ▲▼, while the camera selects the best F-number. If the image will be over- or under-exposed more than 0.5 stops, the F-number

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	and shutter speed turn red. Adjust shutter speed until these items turn white. To change to a different shooting mode, press ◀▶ until arrows surround the shooting mode, then press ▲.
M	**Manual**—For specifying both F-number and shutter speed (see *Using Manual shooting mode* on page 21).
MY	**My Mode**—For a customizable shooting mode that lets you select, save, and then repeatedly use a group of preferred settings (see *Using My Mode* on page 22).

Note The shooting modes do not apply when you are recording video clips.

The shooting mode remains in effect until it is changed again, or until you turn off the camera.

Using Panorama mode

Panorama mode allows you to take a sequence of 2 to 5 pictures that can be stitched together to capture a scene too wide to fit into a single picture. To stitch your panoramic sequence together, use **Stitch Panorama** on the camera (see *Stitching panoramas* on page 33). If you installed the HP Photosmart Software (see *Install the software* on page 10), you can also stitch panoramas automatically as you transfer them to your computer.

1. While in **Live View**, press ▲, use ▲▼ to select either **Panorama** (left to right) or **Panorama** (right to left), then press Menu OK.
2. Press the **Shutter** button to take the first picture in the panoramic sequence.
3. Position the camera to take the second picture. Use the transparent overlay of the first image superimposed on one third of the **Live View** screen to align your second picture with the first.
4. Press the **Shutter** button to take the second picture.
5. Continue adding more pictures to the panorama, or press Menu OK to end the panoramic sequence.

During **Instant Review** (see *Instant Review* on page 14), each image in the panoramic sequence is displayed. When the last image is displayed, you can stitch the sequence by pressing ◀, then pressing Menu OK when the stitched panorama appears. You can also delete the panoramic sequence by pressing ▼, selecting **Entire Panoramic Sequence**, then pressing Menu OK.

Note To add audio to images taken in **Panorama** mode, see *Recording audio* on page 33.

Using Manual shooting mode

Manual mode lets you specify both F-number (aperture) and shutter speed.

1. While in **Live View**, press ▲, use ▲▼ to highlight **M**, then press Menu OK.
2. Frame the subject for your picture.

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3. Use ◀▶ to switch between F-number and shutter speed.
4. Use ▲▼ to adjust the value of the selected option. The arrow on the exposure meter indicates the amount of over- or under-exposure. If the image will be over- or under-exposed more than three stops, the F-number and shutter speed turn red. Adjust either the F-number or shutter speed until these items turn white.

5. If you want to change to a different shooting mode, use ◀▶ to select M, then press ▲.

The **Manual** shooting mode settings remain in effect until they are changed again, even when you turn off the camera.

Using My Mode

My Mode is a customizable shooting mode that allows you to select, save, and reuse a group of preferred settings. You can specify a shooting mode (see *Using the shooting modes* on page 19), **Capture Menu** options (see *Using the Capture Menu* on page 23), and which settings are saved in **My Mode**.

The settings in **My Mode** are independent from all other shooting mode settings and are saved when you turn off the camera.

Selecting and saving preferred settings in My Mode

1. While in **Live View**, press ▲, use ▲▼ to highlight MY **My Mode**, then press Menu OK twice to display the **My Mode Capture Menu**.
2. Use ▲▼ to highlight MY **My Shooting Mode**, press Menu OK, use ▲▼ to select a shooting mode to use in **My Mode**, then press Menu OK to return to the **My Mode Capture Menu**.
3. Use ▲▼ to highlight another menu option, press Menu OK, use ▲▼ to highlight a setting, then press Menu OK to select that setting and return to the **My Mode Capture Menu**.
4. Repeat step 3 to specify other menu options you want to set for **My Mode**.
5. Press 📷/▶ to exit the **My Mode Capture Menu**.

Using the My Mode Saved Settings sub-menu

The **My Mode Saved Settings** sub-menu allows you to specify which settings are saved in **My Mode.** You can also specify that the camera start in **My Mode** instead of **Auto Mode** each time you turn on the camera.

1. While in **Live View**, press ▲, use ▲▼ to highlight MY, then press Menu OK twice.
2. Use ▲▼ to scroll to the **My Mode Saved Settings** menu option, then press Menu OK. **The My Mode Saved Settings** sub-menu displays. The options with check marks will be saved in **My Mode** any time you turn off the camera.

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3. To specify that a setting return to its default when you turn off the camera or to specify that the camera start in **My Mode** each time you turn on the camera:
   a. Use ▲▼ to scroll to the setting.
   b. Use ◀▶ to either remove the check mark next to a setting or switch the **Start in My Mode** setting to **Yes**.
4. Repeat Step 3 for each setting you want to change.
5. Press Menu OK to return to the **My Mode Capture Menu**.
6. To exit the **My Mode Capture Menu**, press 📷/▶.

Using the Capture Menu

The **Capture Menu** allows you to adjust camera settings that affect the characteristics of the images and video clips you capture.

1. While in **Live View**, press Menu OK to display the **Capture Menu**.
2. Use ▲▼ to highlight a menu option, then press Menu OK to display the menu option's sub-menu.
3. Use ▲▼ to highlight a setting, then press Menu OK.
4. Press 📷/▶ to exit the **Capture Menu**.

For on-camera information about an option, use ▲▼ to highlight **Help...** in the option's sub-menu, then press Menu OK.

Mode	**Shooting Modes**—For selecting a shooting mode. For information about shooting modes and another way to select them, see *Using the shooting modes* on page 19.
	Self-Timer—For capturing images or recording video after a delay interval you specify (see *Using the Self-Timer settings* on page 26). ● **Off** (Default)—Disables Self-Timer. ● **On**—For taking one delayed shot or video clip. ● **2 Shots**—For taking two delayed shots or one video clip. For **On** and **2 shots**, you can specify a delay interval of **2**, **5**, **10**, **20**, or **30 seconds**.
	Red-Eye Removal—For automatically removing red eyes when flash is set to **Auto** or **Flash On** and the camera detects red eyes. For information about red eyes, see *Red eye* on page 19. **On**, **Off** (Default)
	Exposure Compensation—Overrides the camera's automatic exposure setting. For more information, see *Exposure Compensation* on page 27. ● To make the images you are about to capture brighter, press ▶ to increase the value. ● To make the images you are about to capture darker, press ◀ to decrease the value.

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	Adaptive Lighting—Balances the relationship between light and dark areas. For more information, see *Adaptive Lighting* on page 27. • **Off** (Default)—Processes the image as normal. • **Low**—Gently brightens dark regions. • **High**—Greatly brightens dark regions.
	Bracketing—Creates a set of three images, each set to a different value. • **Off** (Default)—Processes the image as normal. • **Adaptive Lighting**—Images created with **Adaptive Lighting** set to **Off**, **Low**, and **High**. • **Exposure**—Images created at value set for **Exposure Compensation** and under- and over-exposed by the value you select using ◀▶. • **Color**—Images created in full color, black & white, and sepia. During **Instant Review** (see *Instant Review* on page 14), you can delete the entire bracketing sequence. To delete individual images, see *Deleting images* on page 31.
	Image Quality—Sets resolution and compression for images. The greater the number, the higher the resolution. The fewer stars, the greater the compression (see *Image quality* on page 60). • **10MP** ★★★—For enlarging or printing images greater than 43 by 56 cm (17 by 22 in). • **Normal (10MP** ★★**)** (Default)—For printing images up to 43 by 56 cm (17 by 22 in). • **6MP** ★★—For printing images up to 28 by 36 cm (11 by 14 in). • **3MP** ★★—For printing images up to 20 by 25 cm (8 by 10 in). • **VGA** ★★—For sending images via e-mail or posting them to the Internet. • **Custom...**—For specifying a custom combination of resolution (**10MP**, **6MP**, **3MP**, **VGA**) and compression (★ to ★★★★). Use ▲▼ to move between **Resolution** and **Compression**, and ◀▶ to specify a setting.
	Video Quality—Sets resolution and compression for video clips. The fewer stars, the greater the compression. • **Normal (VGA** ★★★**)** (Default)—For outdoor action video clips or printing individual video frames up to 10.2 by 15.2 cm (4 by 6 in). • **VGA** ★★—For indoor video clips or printing individual video frames up to 7.6 by 12.7 cm (3 by 5 in). • **QVGA** ★—For capturing longer video clips or e-mailing shorter clips.
	Burst—For taking two or more shots quickly in succession (see *Using the Burst setting* on page 27). **On**, **Off** (Default)
	White Balance—Balances color based on lighting conditions. For more information, see *White Balance* on page 28. • **Auto** (Default)—Corrects for scene illuminance. For general picture taking. • **Sun**—For outdoor scenes in sunny or cloudy conditions. • **Shade**—For outdoor scenes in shade or at dusk.

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	• **Tungsten**—For indoor scenes with incandescent or halogen lighting. • **Fluorescent**—For indoor scenes with fluorescent lighting. • **Manual**—For setting a custom **White Balance** based on your target subject. To set the white balance, select **Manual**, then follow the on-screen instructions.
	Auto Focus Area—Selects between a wide, multi-zone focus region and a spot focus region. For more information, see *Focusing on the subject* on page 14. • **Multi** (Default)—Use this setting for general-purpose picture taking or to focus on a subject not in the center of the scene. The camera searches for focus in each of five zones. • **Spot**—Use this setting when the camera keeps focusing on something other than your subject. The camera focuses on a small area in the center of the scene.
	AE Metering—Specifies which region of a scene the camera uses to calculate the exposure. • **Average**—Useful when you want the entire scene to be used when calculating exposure. • **Center-Weighted** (Default)—Useful when the subject of the picture is in the center of the scene. Exposure is based more on the subject than its surroundings. • **Spot**—Useful in backlit scenes or when the subject is very dark or light compared to the rest of the scene. For best results, use **Focus Lock** (see *Using Focus Lock* on page 16) with **Spot**.
	ISO Speed—Adjusts the camera's sensitivity to light. For more information, see *ISO speed* on page 28. • **Auto** (Default)—Camera selects the best ISO speed for the scene. • **ISO 100**—For best quality. • **ISO 200**—For lower light conditions. • **ISO 400**—For lower light conditions and/or action when short shutter speeds are desired.
	Saturation—Controls the saturation of colors in your pictures. • **Low**—Mutes colors to give a softer, more natural look to the subject. • **Medium** (Default)—Leaves colors normally saturated. • **High**—Emphasizes more vivid colors.
	Sharpness—Controls how sharp the fine detail is in your images. • **Low**—For taking portrait pictures with softer, more natural edges. • **Medium** (Default)—For edges with normal sharpness. • **High**—For images with crisp edges.

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	Contrast—Controls amount of contrast between light and dark colors. • **Low**—Dark and light colors in the image are less distinct, and highlights and shadows have more detail. • **Medium** (Default)—Images have normal contrast. • **High**—Dark and light colors in the image are more distinct, and highlights and shadows have less detail.
	Date & Time Imprint—Imprints date in lower left corner of image. • **Off** (Default)—No date or time imprinted on the image. • **Date Only**—Date permanently imprinted. • **Date & Time**—Date and time permanently imprinted.

Note Some **Capture Menu** options are not available in certain shooting modes or in combination with other **Capture Menu** options. In addition, some do not apply when recording video clips.

Using the Self-Timer settings

The Self-Timer allows you to take a delayed still image or video clip. You can specify the time delay between when you press the **Shutter** or **Video** button and when the camera takes the picture or begins recording a video clip.

1. While in **Live View**, press Menu OK to display the **Capture Menu**, use ▲▼ to highlight **Self-Timer**, then press Menu OK.
2. In the **Self-Timer** sub-menu, use ▲▼ to select **On** (for one shot) or **2 Shots**, use ◀▶ to select a time delay in seconds, press Menu OK, then press / . For more details on selecting options in the **Capture Menu**, see *Using the Capture Menu* on page 23.
3. Set the camera on a tripod or stable surface.
4. Frame the subject in the Image Display.
5. The next steps depend on whether you are taking one or two still pictures, or recording a video clip.
   a. For still pictures, press the **Shutter** button halfway down to lock focus and exposure. When the focus brackets turn green, press the **Shutter** button all the way down.
   b. For video clips, press the **Video** button, then release it.
6. The camera counts down the time delay you selected, then takes the still image or begins recording the video clip. If you chose **2 Shots** and are taking a still image, the camera takes the second still image a few seconds after the first.
7. If you are recording a video clip, press the **Video** button to stop recording.

Tip If you want to include yourself in the picture, press the **Shutter** button all the way down, then place the camera on a tripod or stable surface. The camera locks focus and exposure just before the end of the countdown, allowing you time to place yourself in the scene.

Note To add audio to images taken with the **Self-Timer** setting, see *Recording audio* on page 33.

The **Self-Timer** setting resets to the default **Off** setting after the picture or video clip is taken.

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Using the Burst setting

Burst allows you to take two or more pictures as quickly as possible when you press and hold the **Shutter** button all the way down.

1. While in **Live View**, press Menu OK to display the **Capture Menu**, use ▲▼ to highlight **Burst**, press Menu OK, use ▲▼ to select **On**, press Menu OK, then press / . For more details on selecting options in the **Capture Menu**, see *Using the Capture Menu* on page 23.
2. Frame the subject, then press the **Shutter** button halfway down to lock the focus and exposure. Then press the **Shutter** button all the way down and hold it. The camera takes pictures as quickly as possible until you release the **Shutter** button or the camera runs out of memory.

The Image Display remains off during the burst capture. After the burst images have been taken, each image appears one at a time in **Instant Review** (see *Instant Review* on page 14). You can delete the entire burst sequence in **Instant Review**. To delete individual images, see *Deleting images* on page 31.

To add audio to images taken with the **Burst** setting, see *Recording audio* on page 33.

The **Burst** setting remains in effect until it is changed again, or until it resets to the default **Off** setting when you turn off the camera.

Exposure Compensation

You can use **Exposure Compensation** to override the camera's automatic exposure setting. **Exposure Compensation** is useful in scenes that contain many light objects (like a white object against a light background) or many dark objects (like a black object against a dark background). Such scenes could turn out gray without the use of **Exposure Compensation**. For a scene with many light objects, increase the **Exposure Compensation** to a positive number. For a scene with many dark objects, decrease the **Exposure Compensation**.

Tip To see the effect varying **Exposure Compensation** settings might have on a scene, try the **Exposure** option in **Bracketing** (see **Bracketing** under *Using the Capture Menu* on page 23).

Adaptive Lighting

This setting balances the relationship between bright and dark areas in a picture, preserving gentle contrasts while reducing harsh contrasts. When used with a flash, **Adaptive Lighting** can brighten areas that a flash wouldn't reach. **Adaptive Lighting** is useful in situations like these:

- Outdoor scenes with a mixture of sun and shade
- High contrast scenes that contain both light and dark objects
- Indoor scenes that use flash photography (to soften or even out the effect of the flash)
- Backlit scenes where the subject is too far away for the flash to reach, or is severely backlit (for example, in front of a window)

You can use **Adaptive Lighting** with or without flash, but it is not recommended as a replacement for flash. Unlike the flash, **Adaptive Lighting** does not affect exposure settings, so brightened areas may appear noisy or grainy, and indoor or night images may be blurry if taken without a flash or a tripod.

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Tip To see the effect the **Adaptive Lighting** settings might have on a scene, use the **Adaptive Lighting** option in **Bracketing** (see **Bracketing** under *Using the Capture Menu* on page 23).

White Balance

Different lighting conditions cast different colors. This setting allows the camera to compensate for this, reproducing colors more accurately and ensuring that whites appear white in the final image. You can also adjust the white balance to produce creative effects. For example, the **Sun** setting produces a warmer look to the image.

ISO speed

This setting adjusts the sensitivity of the camera to light. When **ISO Speed** is set to the default **Auto** setting, the camera selects the best ISO speed for the scene.

Lower ISO speeds capture images with the least amount of grain (or noise), but result in slower shutter speeds. If taking a picture in low light conditions without a flash at **ISO 100**, use a tripod.

Higher ISO numbers allow faster shutter speeds, and can be used when taking pictures in dark areas without a flash, or when taking pictures of fast moving objects. Higher ISO speeds produce pictures with more grain (or noise) and, therefore, can be of lower quality.

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3 Reviewing images and video clips

You can review and manipulate images and video clips in **Playback** as described here. For information about enhancing images, see *Using the Playback Menu* on page 30 and *Using the Design Gallery Menu* on page 34.

Using Playback

1. Press / until appears briefly in the upper right corner of the Image Display.
2. Use to scroll through your images and video clips (video clips play automatically). When viewing video clips, press Menu OK to stop the clip, then use to scroll through the individual frames.
3. To switch to **Live View**, press /.

During **Playback**, the Image Display also indicates additional information about each image or video clip.

1	SD	Memory card indicator.
2		Battery indicator (see *Power indicators* on page 55).
3		Image position in a panoramic sequence.
4	3	Number of images to print (see *Marking images for printing* on page 42).
5	1	Number of electronic Photosmart Share destinations (see *Sharing images* on page 43).
6		Image marked to buy prints online (see *Buying prints online* on page 43).
7		Image tagged as **Favorite** (see *Tagging images as Favorites* on page 42).

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8	**0:15**	• Recorded length of this audio or video clip. • Attached audio clip indicator. • Video clip indicator.
9	**1 of 30**	Number of this image or video clip out of the total number of stored images and video clips.

Saving frames from video clips

If you want to print a frame from a video clip, you can save an individual frame as a still image.

1. During video playback, press Menu OK to pause the video.
2. Use ◀▶ to scroll one frame at a time.
3. Press ▲ to save the displayed frame.
4. Press 📷 / ▶ to resume playing the video clip.

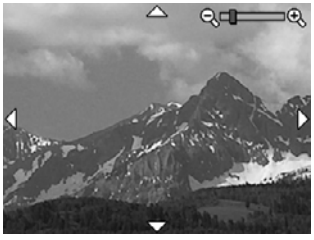
Viewing thumbnails

1. While in **Playback**, press **Thumbnails** (same as **Zoom Out** on the **Zoom lever**) to view thumbnails.
2. Use ▲▼ and ◀▶ to scroll through the thumbnails.
3. Press Menu OK to exit **Thumbnails** and view the highlighted image on the Image Display.

Magnifying images

This feature is for viewing purposes only; it does not permanently alter the image.

1. While in **Playback**, press (same as **Zoom In** on the **Zoom lever**). The currently displayed image is magnified 2x.
2. Use ▲▼ and ◀▶ to pan around the magnified image.
3. Use and to change the magnification.
4. Press Menu OK to return to **Playback**.



Using the Playback Menu

1. While in **Playback**, press Menu OK.
2. Use ▲▼ to highlight an option.
3. Use ◀▶ to select an image or video clip, press Menu OK, and follow the on-screen instructions.
4. Press 📷 / ▶ to exit the **Playback Menu**.

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	Delete—See *Deleting images* on page 31.
	Image Advice—Analyzes image for focus, exposure, and so forth.
	Image Info—See *Viewing image information* on page 32.
	View Slideshow—See *Viewing slideshows* on page 32.
	Stitch Panorama—See *Stitching panoramas* on page 33.
	Record Audio—See *Recording audio* on page 33.
	Move Images to Card—Moves images from internal memory to memory card. Available only if there are images in internal memory and a memory card is inserted. To move images, select this option and follow the on-screen prompts.

Deleting images

To delete an image using the **Delete** option on the **Playback Menu**:

1. While in **Playback**, use ◀▶ to scroll to the image you want to delete, then press Menu OK to display the **Playback Menu**.
2. Press ▼ to highlight **Delete**, then press Menu OK.
3. Use ▲▼ to select an option, then press Menu OK.
   - **Cancel**—Returns to **Playback** without deleting the displayed image.
   - **This Image**—Deletes the image or video clip.
   - **All Except Favorites**—Deletes all images except those tagged as **Favorites**. This menu option only appears if you have images tagged as **Favorites** (see *Tagging images as Favorites* on page 42).
   - **Entire Panoramic Sequence**—If the current image is part of a panoramic sequence, deletes all images in the panoramic sequence.
   - **All Images (in Memory/on Card)**—Deletes all stored images and video clips.
   - **Undelete Last**—Recovers the most recently deleted image. This option is only available until you capture another image.
   - **Format (Memory/Card)**—Deletes all stored files, then formats the internal memory or memory card.

Tip To delete a displayed image while in **Playback**, press ▼, select an option, then press Menu OK.

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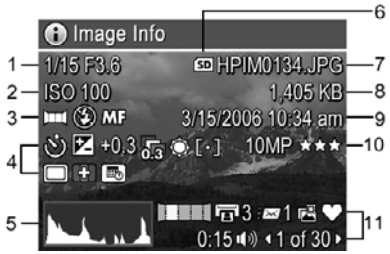
Viewing image information

The **Image Info** screen shows the settings used when capturing the currently displayed image or video clip.



1	Shutter speed and F-number (aperture).
2	**ISO Speed**.
3	Non-default shooting mode (see *Using the shooting modes* on page 19), **Flash** (see *Setting the flash* on page 19), and **Focus** setting (see *Using the focus range settings* on page 17).
4	All non-default **Capture Menu** settings except **Image Quality**.
5	Histogram displaying, left to right, the distribution of dark, mid-range, and light pixels in the captured image.
6	Memory card indicator.
7	File name of the image.
8	File size of the image.
9	Date and time image was captured.
10	**Image Quality** setting at which the image was captured.
11	The information in the two rows in the bottom, right corner of the image is the same provided in **Playback**.

Viewing slideshows

Select **View Slideshow** to configure and run a slideshow of images and/or video clips on the camera Image Display or on a TV (if the camera is docked in an optional HP Photosmart premium dock or wireless dock base and connected to a TV).

- **EXIT**—Returns to the **Playback Menu** without viewing the slideshow.
- **Start Slideshow**—Starts the slideshow.
- **Images**—Plays the specified images: **All** (default), **Favorites**, **Stills Only**, **Videos Only**, **This Image**.
- **Interval**—Sets the amount of time each image is shown: **2 secs**, **5 secs** (default), **10 secs**, **15 secs**, **60 secs**, **Manual** (press ◀▶ to manually advance the images in the slideshow).

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- **Loop**—Specifies how often the slideshow repeats: **Once** (default), **2x**, **3x**, **Continuous**.
- **Audio**—Plays associated audio clips at the specified volume: **Off**, **Low**, **High**.

Stitching panoramas

When an image from a panoramic sequence is displayed and you select **Stitch Panorama**, the camera displays a stitched view of the panoramic sequence.

Note Stitching on-camera will result in a smaller image than if you stitched when transferring images to a computer. To stitch a panorama at the resolution at which you took the panoramic sequence, transfer the panoramic sequence of images to your computer (see *Transferring images with HP Photosmart Software* on page 38).

1. Scroll to one of the images in a panoramic sequence.
2. Use ▲▼ to select **Stitch Panorama**, then press Menu OK to view a preview of the stitched image.
   You can use 🔍 to magnify the stitched panorama preview, and ▲▼ ◀▶ to pan around the image and examine the stitching.
3. Press Menu OK to stitch and save the panoramic image; press 📷 / ▶ to cancel panorama stitching.

When you stitch a panorama, individual images in the panoramic sequence are retained.

Recording audio

Record Audio allows you to record an audio clip and attach it to an existing image or panoramic sequence.

1. Select **Record Audio** to immediately start recording.
2. To stop recording and attach the audio clip to the displayed image, press Menu OK.

Note You can attach audio clips to individual images in a panoramic sequence. When you stitch the panoramic sequence (on-camera or on-computer), no audio is attached to the stitched image. You can, however, add audio to a stitched panorama as previously described.

If the currently displayed image already has an audio clip attached to it, the **Record Audio** sub-menu displays instead when you select **Record Audio**.

- **Keep Current Clip**—Retains the current audio clip and returns to the **Playback Menu**.
- **Record New Clip**—Records a new audio clip, replacing the previous audio clip.
- **Delete Clip**—Deletes the current audio clip and returns to the **Playback Menu**.

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4 Using the Design Gallery Menu

You can use the **Design Gallery** features to enhance your captured images.

1. While in **Playback**, use ◀▶ to scroll to an image, then press Menu/OK.
2. Use ◀▶ to highlight the **Design Gallery Menu** tab.
3. Use ▲▼ to highlight an option, then press Menu/OK and follow the on-screen instructions.

	Apply Artistic Effects—See *Applying artistic effects* on page 34.
	Modify Color—See *Modifying colors* on page 35.
	Add Borders—See *Adding borders* on page 35.
	Remove Red Eyes—See *Removing red eyes* on page 36.
	Rotate—Rotates the displayed image. Use ◀▶ to rotate the image clockwise or counter-clockwise in 90-degree increments. Press Menu/OK to save the image in the new orientation.
	Crop—See *Cropping images* on page 36.

Applying artistic effects

Tip If you need to crop an image (see *Cropping images* on page 36), do so before applying artistic effects or adding borders. If you plan to apply artistic effects or modify colors, do so before adding a border.

Apply Artistic Effects allows you to create a copy of a selected image and apply creative effects to the copy. To apply artistic effects:

1. Use ▼ to select **Apply Artistic Effects**, then press Menu/OK.
2. Use ▲▼ to select an option and preview the effect it has on the image.
   - **Cancel**—Returns to the **Design Gallery Menu** without saving changes.
   - **Ink Dots**—Uses dots to simulate the art technique of pointillism.
   - **Cartoon**—Simulates a highly-graphical comic book image.
   - **Watercolor**—Simulates a watercolor painting.
   - **Center Focus**—Creates a feathered blur radiating from a sharp center to a blurred edge.
   - **Posterize**—Creates a high-contrast, flat-toned effect.
   - **Retro**—Creates a two-color, high-contrast look from the 70s.
   - **Soft Glow**—Adds a diffuse, bright ethereal glow.
   - **Vintage**—Adds an aged, scratched look.
   - **Slimming**—Compresses centered subjects for a slimmer look.
   - **Sky Color**—Enhances sky with a feathered color that fades from the top down.
   - **Ground Color**—Enhances landscapes with a feathered color that fades from the bottom up.
   - **Kaleidoscope**—Mirrors the image in four directions.

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– **Solarize**—Creates a partial reversal of tones and emphasizes outlines.
– **Drawing**—Creates a pencil drawing using the edges in the image.

3. Press Menu OK to select the artistic effect and display the creative sub-menu. Follow the on-screen instructions to adjust the artistic effect.
4. Press Menu OK to save a copy of the image with the artistic effect and return to the **Design Gallery Menu**. Press ◙ / ▶ to exit without saving and return to the **Apply Artistic Effects** sub-menu.

Modifying colors

Modify Color allows you to apply color schemes to the displayed image. To modify colors:

Tip If you plan to apply artistic effects or modify colors, do so before adding a border.

1. Use ▼ to select **Modify Color**, then press Menu OK.
2. Use ▲▼ to select a color scheme and preview the effect it has on the image.
   – **Cancel**—Returns to the **Design Gallery Menu** without saving changes.
   – **Black and White**—Converts color images to black and white.
   – **Sepia**—Converts image to a brownish tone to look old-fashioned.
   – **B&W Tints**—Applies color tones on a black and white version of an image.
   – **Color Tints**—Adds an extra color layer to create a mood or feeling.
3. Press Menu OK to select the color scheme and display the creative sub-menu. Follow the on-screen instructions to adjust the color.
4. Press Menu OK to save a copy of the image with the specified color scheme and return to the **Design Gallery Menu**. Press ◙ / ▶ to exit without saving and return to the **Modify Color** sub-menu.

Adding borders

Tip If you need to crop an image (see *Cropping images* on page 36), do so before adding borders or applying artistic effects. If you plan to apply artistic effects or modify colors, do so before adding a border.

Add Borders allows you to add one or more predefined borders to the displayed image. To add a border:

1. Use ▼ to select **Add Borders**, then press Menu OK.
2. Use ▲▼ to select a border type and preview the effect it has on the image.
   – **Cancel**—Returns to the **Design Gallery** menu without saving changes.
   – **Soft Edge**—Applies a soft, vignetted frame to the image.
   – **Inset Border**—Image extends beyond the inset frame.
   – **Torn Edge**—Creates random tears for an uneven border effect.
   – **Burn Edge**—Creates a border with darkened areas that appear burned.
   – **Spatter**—Creates an edge that appears to dissolve into the paper, like spray.
   – **Oval**—Adds an oval matte border with beveled edges.
   – **Circle**—Adds a circular matte border with beveled edges.
   – **Rectangle**—Adds a rectangular matte border with sharp corners.

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- **Rounded Rectangle**—Uses a rectangle with soft corners for the matte border.
- **Square**—Adds a square matte border with beveled edges.

3. Press Menu OK to select the border and display the creative sub-menu. Follow the on-screen instructions to adjust the border.
4. Press Menu OK to save a copy of the image with the specified border and return to the **Design Gallery Menu**. Press ◙ / ▶ to exit without saving and return to the **Add Borders** sub-menu.

Removing red eyes

When you select **Remove Red Eyes**, the camera processes the current still image to remove red eyes from the subjects.

Note To prevent red eyes in images, see *Red eye* on page 19.

The red-eye removal process takes a few seconds, after which the image displays with green boxes around corrected areas, along with the **Remove Red Eyes** submenu:

- **Save Changes** (Default)—Overwrites the original image and returns to the **Design Gallery Menu**.
- **View Changes**—Displays a magnified view of the image with green boxes around the corrected areas.
- **Cancel**—Returns to the **Design Gallery Menu** without saving the red eye changes.

To undo red eye removal, select **Undo Red-Eye Removal** from the **Design Gallery Menu**, then press Menu OK.

Note **Undo Red-Eye Removal** only appears on the **Design Gallery Menu** if you are viewing an image on which you have already performed red-eye removal, or on an image taken with **Red-Eye Removal** turned on. See **Red-Eye Removal** under *Using the Capture Menu* on page 23.

Remove Red Eyes is only available for still images taken with a flash.

Cropping images

Crop allows you to crop the displayed image to the selected orientation, then use the **Zoom lever** and ▲▼ ◀▶ to ensure that the image content you want gets printed.

Tip Make sure you crop images as needed before adding borders or applying artistic effects.

1. Use ▼ to select **Crop**, then press Menu OK.
2. Use ▲▼ to select a crop orientation and preview the effect it has on the image.
   - **Cancel**—Returns to the **Design Gallery Menu** without saving changes.
   - **Landscape** (Default)—Horizontally crops the displayed image to a 3:2 aspect ratio (one third wider than tall).
   - **Portrait**—Vertically crops the displayed image to a 2:3 aspect ratio (one-third taller than wide).
   - **Help**—Provides extended help information for the **Crop** function.

   Follow the on-screen instructions to use the **Zoom lever** and adjust what appears in the cropped image.

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When you print, the normal aspect ratios get cropped on the top and bottom (landscape) or on the sides (portrait). Cropping helps ensure that the content you want gets printed.

3. Press Menu/OK to save a copy of the cropped image and return to the **Design Gallery Menu**. Press 📷/▶ to exit without saving and return to the **Crop** sub-menu.

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5 Transferring and printing images

You can transfer images and video clips with or without the HP Photosmart Software that came with your camera. However, the HP Photosmart Software has several features for transferring and managing your images and also guides you through the transfer process.

Transferring images with HP Photosmart Software

If you have installed the HP Photosmart Software (see *Install the software* on page 10), use this method to transfer images and video clips to your computer. You can also use this method to transfer, stitch, and print panoramas.

1. If you have selected images for sharing, printing, or buying prints online (see *Using HP Photosmart Express* on page 41), verify that the computer is connected to a printer and/or the Internet.
2. Connect the dock and computer using the USB cable that came with your camera.
3. Place the camera in the dock.
4. Turn on the camera and follow the instructions on the computer screen to transfer the images. For more information, see the Help feature in the HP Photosmart Software.

Transferring images without HP Photosmart Software

If you do not install the HP Photosmart Software:

- You cannot use the **Share** features or **Buy Prints Online** on the camera's **Photosmart Express Menu** (see *Using HP Photosmart Express* on page 41).
- Panoramic sequences are not automatically stitched when you transfer the images to your computer.
- Images marked for printing do not automatically print when the camera is connected to the computer.

However, you can still transfer images and video clips to your computer by:

- Connecting your camera directly to the computer (see *Connecting to the computer* on page 39)
- Using a memory card reader (see *Using a memory card reader* on page 39)

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Connecting to the computer

1. Turn off the camera, connect the dock to your computer and place the camera in the dock, then turn on the camera.
   - On Windows computers, the camera appears as a device in Explorer, allowing you to copy images from the camera to the computer.
   - On Macintosh computers, either Image Capture or iPhoto starts automatically, allowing you to transfer images to the computer.
2. When you have finished transferring images, remove the camera from the dock. If your computer is running Windows 2000 or XP and you get an **Unsafe Removal** warning, disregard the warning.

If you encounter problems, set the camera's **USB Configuration** to **Disk Drive** (see **USB Configuration** under *Using the Setup Menu* on page 45) and reconnect to your computer.

Note On Macintosh computers, if you set the camera to **Disk Drive** and neither Image Capture nor iPhoto starts automatically, look on the desktop for a disk drive icon with the label **HP_R967** and copy the images manually. For more information about how to copy files, visit Mac help.

Using a memory card reader

You can put your camera's optional memory card into a (separately purchased) memory card reader. Some computers and HP Photosmart printers have built-in memory card slots which act as a memory card reader.

For Windows computers:

1. Insert your camera's memory card into the memory card reader (or into your computer's memory card slot).
2. Right-click **My Computer** on your desktop, then select **Explore**.
3. Expand the removable drive folder, expand the **DCIM** folder, then click on the folder for your camera.
4. Select and copy all the images to a folder on your computer.
5. After verifying that the images were successfully transferred, return the memory card to your camera.

For Macintosh computers:

1. Insert your camera's memory card into the memory card reader (or into your computer's memory card slot).
2. Either the HP Photosmart Software, Image Capture, or iPhoto starts automatically and guides you through the process of transferring images.

If no application starts automatically or if you want to copy the images manually, look on the desktop for the disk drive icon for the memory card, then copy the images to your local hard drive. For more information about how to copy files, visit Mac help.

Printing images from the camera

You can connect the camera using the dock to any PictBridge-certified printer to print still images and frames saved from a video clip (see *Saving frames from video clips* on page 30). For information about printing panoramas directly to a printer, see *Printing panoramas from the camera* on page 40.

PictBridge

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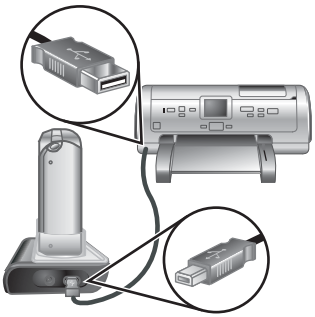
1. Check that the printer is turned on, there is paper in the printer, and there are no printer error messages.
2. Verify that the camera's **USB Configuration** is set to **Digital Camera** (see **USB Configuration** under *Using the Setup Menu* on page 45).
3. Connect the dock and printer using the USB cable that came with your camera.
4. Place the camera in the dock and turn on the camera.
5. When the camera is connected to the printer, the **Print Setup Menu** displays on the camera.
   - To change the set of images you want to print, use ◀▶, then follow the on-camera instructions.
   - To edit the selection, press 🖶, then follow the on-camera instructions.
   - To change other settings, use ▲▼ on the camera to select a menu option, then use ◀▶ on the camera to change the setting.
6. Press Menu OK to begin printing.



Note If you connect the camera to a non-HP printer and encounter problems with printing, contact your printer manufacturer. HP does not provide customer support for non-HP printers.

Printing panoramas from the camera

You can print panoramas stitched on the camera (see *Stitching panoramas* on page 33) directly to PictBridge-certified HP printers capable of printing panoramas on 10 x 30 cm (4 x 12 in) paper. You can also print portions of still images as panoramas.

1. Follow Steps 1 to 4 under *Printing images from the camera* on page 39, verifying that you have panorama paper in the printer.
2. When the **Print Setup Menu** displays on the camera, use ◀▶ to select an option in **Images** or press 🖶 and follow the on-camera instructions to select a set of images.
3. In the **Print Setup Menu**, highlight **Print Size:**, use ◀▶ to select **Panorama**, then press Menu OK.
4. In the **Panorama Printing Menu**, highlight an option.
   - **Print as Shown**—Prints the area shown within the green box.
   - **Select Crop Area**—Allows you to adjust the portion of the selected image to print. To select the area, press Menu OK, use ▲▼, ◀▶, 🔍, and 🔍 to position the green box over the area, then press Menu OK to return to the **Panorama Printing Menu**.
   - **Skip This Image**—Proceeds to the next image without printing the image displayed.
   - **Cancel**—Exits the **Panorama Printing Menu**, cancels all pending and in-progress print jobs, and returns to the **Print Setup Menu**.
5. When you are done printing, remove the camera from the dock.

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6 Using HP Photosmart Express

With **HP Photosmart Express**, you can select still images in your camera to print automatically (see *Marking images for printing* on page 42), to buy prints online (see *Buying prints online* on page 43), or to send to custom destinations (see *Sharing images* on page 43) the next time you connect the camera to your computer or printer. You can also tag images on the camera as **Favorites** and print, buy prints online, or send them to custom destinations as a group (see *Tagging images as Favorites* on page 42).

You must have the HP Photosmart Software, either HP Photosmart Premier (Windows) or HP Photosmart Mac (Macintosh), on your computer to use some features in the **Photosmart Express Menu**. For information about this software, see *About the HP Photosmart Software* on page 11.

Note Available online services vary by country or region. Visit www.hp.com/go/sharing for more information.

Using the Photosmart Express Menu

To display the **Photosmart Express Menu**, press . Use ▲▼ and ◀▶ to highlight a menu option, then press Menu OK.

	Print—Allows you to select images and specify number of copies to print. See *Marking images for printing* on page 42.
	Share—Allows you to add custom online destinations and share images to one or more destinations. See *Sharing images* on page 43.
	Buy Prints—Specifies images you want printed by an online printing service. See *Buying prints online* on page 43.
	Favorites—Allows you to tag images as **Favorites**. See *Tagging images as Favorites* on page 42.
?	**Help**—Provides information about the **Photosmart Express Menu** and its options.

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Tagging images as Favorites

Tagging an image as a **Favorite** allows you to quickly print, share, or buy prints online for the group of images tagged as **Favorites**.

1. While in **Playback**, use ◀▶ to display an image you want to tag as a **Favorite**, then press 🔗.
2. Use ▲▼ and ◀▶ to highlight **Favorites**, then press Menu OK.
3. Highlight **This Image**, then press Menu OK. To deselect **This Image**, press Menu OK again.
4. For each additional image you want to tag as a **Favorite**, use ◀▶ to display the image, then repeat Step 3.
5. When you are done tagging images as **Favorites**, press 🔗.

Tip To view just the images tagged as **Favorites**, select **Favorites** in **View Slideshow** (see *Viewing slideshows* on page 32.

Marking images for printing

You can mark for printing individual images, groups of images tagged as **Favorites**, or all images in the camera. The next time you connect the camera via the dock to a PictBridge-certified printer or a computer with the HP Photosmart software installed, the marked images are automatically printed.

1. Press 🔗, use ▲▼ and ◀▶ to highlight **Print**, then press Menu OK.
2. In the **Print** menu, highlight an option, then press Menu OK.
   - **This Image**—Selects the image currently displayed. You can scroll to a different image using ◀▶.
   - **All Favorites...**—Displays the **Print All Favorites** sub-menu. Highlight **Print All Favorites**, then press Menu OK. This option is available only if you have tagged more than one image as a **Favorite** (see *Tagging images as Favorites* on page 42).
   - **All Images...**—Displays the **Print All Images** sub-menu. Highlight **Print All Images**, then press Menu OK. This option is available only if you have more than one image in the camera.

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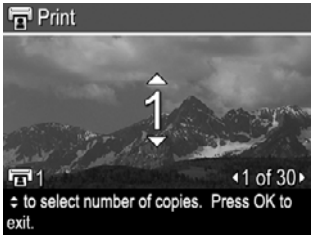
3. If you want to print more than one copy, highlight **Change Number of Copies**, then press Menu OK. In the **Print** sub-menu for changing the number of copies, use ▲▼ to specify the number of copies to print, then press Menu OK.



4. From the main **Print** menu, you can select additional images for printing, using ◀▶ to display an image, highlight **This Image** in the **Print** menu, pressing Menu OK, then repeating Step 3.
5. When you are done marking images for printing, press .
6. To print the images you selected, connect the camera via the dock to a PictBridge-certified printer or a computer with the HP Photosmart software installed, then turn on the camera.

Buying prints online

You can select images you want to order as prints. The next time you connect the camera via the dock to a computer with the HP Photosmart software installed, you can order prints of the selected images online.

1. Press , use ▲▼ and ◀▶ to highlight **Buy Prints**, then press Menu OK.
2. In the **Buy Prints** sub-menu, highlight an option, then press Menu OK.
   - **This Image**—Selects the image currently displayed. You can scroll to a different image using ◀▶.
   - **All Favorites...**—Displays the **Buy Prints of All Favorites** sub-menu. Highlight **Buy Prints of All Favorites**, press Menu OK, then highlight **EXIT** and press Menu OK again. This option is available only if you have tagged more than one image as a **Favorite** (see *Tagging images as Favorites* on page 42).
   - **All Images...**—Displays the **Buy Prints of All Images** sub-menu. Highlight **Buy Prints of All Images**, press Menu OK, then highlight **EXIT** and press Menu OK again. This option is available only if you have more than one image in the camera.
3. To select additional images, use ◀▶ to display an image, press Menu OK, then repeat Step 2.
4. When you are done marking images for which you want to buy prints, press .
5. To buy prints of the images you selected, verify that the computer is connected to the Internet, then connect the camera to your computer via the dock and turn on the camera. Follow the on-screen instructions to buy prints.

Sharing images

You can customize the **Share** sub-menu to include e-mail addresses, group distribution lists, online albums, or other online services. You can then select images to send to these destinations.

Setting up online destinations in the camera

You can specify up to 34 custom destinations (such as individual e-mail addresses or group distribution lists) in the **Photosmart Express Menu**.

1. Verify that your computer is connected to the Internet.
2. Turn on the camera, then press .

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3. Highlight **Share**, then press Menu OK. If you have already created destinations, highlight **Share Menu Setup** and press Menu OK again.
4. Connect the camera to your computer via the dock. Follow the on-screen instructions to set up destinations in your camera.
5. Disconnect the camera from the computer, press , then highlight **Share** and press Menu OK to verify that the new destinations are now in the camera.

Sending images to online destinations

After you have set up online destinations in the camera, you can mark images to be sent to these custom destinations the next time you connect your camera to your computer via the dock.

1. Press , use ▲▼ and ◀▶ to highlight **Share**, then press Menu OK.
2. In the **Share** sub-menu, highlight an option, then press Menu OK.

   – Custom Destinations—Selects the destination to send the image displayed in the background. There may be multiple destinations depending on the number of them you created (see *Setting up online destinations in the camera* on page 43). You can scroll to a different image using ◀▶.
   – **All Favorites...**—Displays the **Share All Favorites** sub-menu. To select this option, press Menu OK in the sub-menu, then highlight each destination to which you want to send all **Favorites**, pressing Menu OK to select each destination. After selecting destinations, highlight **EXIT** and press Menu OK. This option is available only if you have tagged more than one image as a **Favorite** (see *Tagging images as Favorites* on page 42).
   – **All Images...**—Displays the **Share All Images** sub-menu. To select this option, press Menu OK in the sub-menu, then highlight each destination to which you want to send all images, pressing Menu OK to select each destination. After selecting destinations, highlight **EXIT** and press Menu OK. This option is available only if you have more than one image in the camera.
3. To select additional images to share, use ◀▶ to display an image, then repeat Step 2.
4. When you are done marking images to share, press .
5. To send the images to the destinations you selected, verify that the computer is connected to the Internet, then connect the camera to the computer via the dock and turn on the camera.

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7 Using the Setup Menu

The **Setup Menu** allows you to set preferences for the camera's behavior.

1. While in **Live View** or **Playback**, press Menu OK, then use ◀▶ to highlight 🔧.
2. Use ▲▼ to highlight a menu option, then press Menu OK to display the menu option's sub-menu.
3. Use ▲▼ to highlight a setting, then press Menu OK.
4. To exit the **Setup Menu**, press 📷/▶.

Settings you specify remain until you change them.

	Display Brightness—Adjusts the brightness of the Image Display. ● **Low**—For extending battery life. ● **Medium** (Default)—For normal viewing conditions. ● **High**—For very bright lighting conditions.
	Sounds Volume—Adjusts the speaker volume for camera sounds (such as button presses and shutter clicks) and recorded audio. **Off**, **Low** (Default), **High**.
	Focus Assist Light—Enables the focus assist light used in low-light situations. You may want to turn off this feature when you do not want to distract the subject of your picture. **Auto** (Default), **Off**.
	Display Timeout—Specifies the time after which the Image Display turns off if you do not press a button. **Never**, **15**, **30**, **45** (Default), **60 seconds**.
	Instant Review—Adjusts the time an image or video clip is displayed in **Instant Review**. **Off**, **1**, **2** (Default), and **4 seconds**.
	Digital Zoom—Enables or disables digital zoom. **On** (Default), **Off**.
	Date & Time—Sets the date and time. See *Set the date and time* on page 9.
	USB Configuration—Specifies how a computer recognizes the camera. See *Connecting to the computer* on page 39. ● **Digital Camera** (Default)——Recognizes the camera as a digital camera using PTP (Picture Transfer Protocol). ● **Disk Drive**—Recognizes the camera as a disk drive using MSDC (Mass Storage Device Class).

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(continued)

	TV Configuration—Sets the video signal format for displaying camera images on a TV. ● **NTSC**—Used primarily in North America, parts of South America, Japan, Korea, and Taiwan. ● **PAL**—Used primarily in Europe, Uruguay, Paraguay, Argentina, and parts of Asia.
	(Language)—Sets the language. See *Choose the language* on page 9.
	Reset Settings—Resets camera to the factory default settings. ● **Cancel**—Exits the menu without resetting any of the settings. ● **Yes**—Resets all camera settings to their defaults (except **Date & Time**, **Language**, **TV Configuration**, and **USB Configuration**).

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8 Troubleshooting

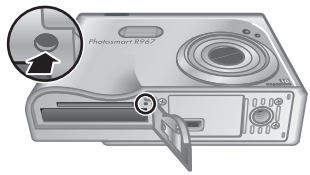
Use this section to find information on:

- Resetting the camera (see *Resetting the camera* on page 47).
- Possible problems and solutions (see *Problems and solutions* on page 47).

Resetting the camera

If your camera does not respond when you press buttons, reset the camera.

1. Turn off the camera.
2. Remove the memory card and battery.
3. Press the straightened end of a paper clip into the **Reset** switch (the small hole located by the battery slot, as shown), hold the switch down for 3-6 seconds, then release.
4. Reinstall the battery and close the Battery/Memory card door.
5. Verify that the camera works without an optional memory card, then reinstall the card.



When the camera is reset, any images or video clips stored in memory are retained.

Problems and solutions

Use this information to find solutions to common issues you may have using your camera.

The camera does not turn on.

- Install a new or recharged battery, ensuring that the battery is inserted correctly (see *Install the battery* on page 8) and that you are using a rechargeable HP Photosmart R07 Lithium Ion battery for HP Photosmart R-series cameras (L1812A/L1812B).
- Ensure that the HP AC power adapter is connected to the camera through the dock and is plugged into a working electrical outlet. Ensure that the HP AC power adapter is not damaged or defective.
- Reset the camera (see *Resetting the camera* on page 47).
- Ensure that the memory card is the proper type (see *Storage* on page 59). If so, remove the memory card and turn on the camera; if the camera turns on, format the memory card (see *Install and format an optional memory card* on page 10). If the camera still does not turn on, format the memory card using a memory card reader, or replace the memory card.

The battery gauge goes up and down frequently.

See *Power indicators* on page 55.

I have to recharge the Lithium Ion battery frequently.

- See *Extending battery life* on page 54.
- A battery that is new or has not been charged recently must be recharged to reach full capacity.
- If you have not used the battery for two months or longer, recharge it.

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The Lithium Ion battery will not charge.

- Try charging it again after it has drained awhile.
- Use only the approved HP AC power adapter.
- If charging the battery in the HP quick recharger or the spare battery charging bay of an optional HP Photosmart dock does not work, replace the battery.

The camera does not turn on when I connect to AC power, then disconnect, then reconnect.

- Insert a battery into the camera.
- Reset the camera (see *Resetting the camera* on page 47).
- The AC power adapter could be malfunctioning. Try connecting to a different compatible AC power adapter.
- Try plugging the AC power adapter into a different electrical outlet.

It takes the camera a long time to turn on.

Having a large number of files (over 300) stored on an optional memory card affects the time it takes for the camera to turn on. Transfer stored files to your computer, then format the memory card.

The camera does not respond when I press a button.

- Turn on the camera.
- Most of the camera buttons do not respond when the camera is connected to a computer through the dock.
- Replace or recharge the battery.
- Reset the camera (see *Resetting the camera* on page 47).
- The memory card may be defective. Remove the memory card and test the camera; if the camera works, replace the memory card.
- Format the internal memory and/or the memory card (see *Install and format an optional memory card* on page 10).

The camera does not take a picture when I press the Shutter button.

- Press the **Shutter** button all the way down.
- The memory card or internal memory may be full. Transfer images from the camera to your computer, then format the internal memory or the memory card (see *Install and format an optional memory card* on page 10). Or replace the card with a new one.
- The camera may be processing. Wait a few seconds for the camera to finish processing the last image before taking another picture.

The Image Display is not working.

- The Image Display may have timed out. Press any camera button to wake up the camera.
- Replace or recharge the battery. If the Image Display does not turn on, remove the battery and connect to AC power via the dock. If the Image Display still does not turn on, reset the camera (see *Resetting the camera* on page 47).

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My image is blurry.

- Use **Focus Lock** (see *Using Focus Lock* on page 16).
- Use **Steady Photo** shooting mode (see **Steady Photo** under *Using the shooting modes* on page 19).
- Use a tripod to hold the camera steady, or improve lighting conditions.
- Set the camera to **Macro**, **Auto Macro**, **Normal**, or **Infinity** focus and try taking the picture again (see *Using the focus range settings* on page 17).
- Set the flash to **Auto Flash** or **Flash On** and set the shooting mode to **Action**.
- Check **Image Advice** for specific tips (see **Image Advice** under *Using the Playback Menu* on page 30).

My image is too bright.

- Turn the flash off (see *Setting the flash* on page 19).
- Move back from the subject and use zoom.
- Adjust **Exposure Compensation** (see **Exposure Compensation** under *Using the Capture Menu* on page 23).
- Use **Bracketing** for exposure (see **Bracketing** under *Using the Capture Menu* on page 23).
- Check **Image Advice** for specific tips (see **Image Advice** under *Using the Playback Menu* on page 30).

My image is too dark.

- Wait for natural lighting conditions to improve, use the flash (see *Setting the flash* on page 19) or add indirect lighting.
- Adjust **Exposure Compensation** (see **Exposure Compensation** under *Using the Capture Menu* on page 23).
- Use **Bracketing** for exposure (see **Bracketing** under *Using the Capture Menu* on page 23).
- Use **Adaptive Lighting** (see **Adaptive Lighting** under *Using the Capture Menu* on page 23).
- Use the **Spot** setting for **AE Metering** (see **AE Metering** under *Using the Capture Menu* on page 23).
- If the subject you are trying to capture is outside the flash range (see **Flash working distance** under *Specifications* on page 58), turn off the flash. This causes a longer exposure time, so use a tripod or hold the camera steady.
- Check **Image Advice** for specific tips (see **Image Advice** under *Using the Playback Menu* on page 30).

My image is grainy.

- Add indirect lighting, use the flash (see *Setting the flash* on page 19), or wait for natural lighting conditions to improve.
- Use a lower **ISO Speed** setting (see **ISO Speed** under *Using the Capture Menu* on page 23.
- You may have zoomed in too far using digital zoom (see *Digital zoom* on page 18).
- If the camera is warm, the effect will diminish as the camera cools. For best image quality, avoid storing the camera in very hot locations.
- Use **Image Advice** (see **Image Advice** under *Using the Playback Menu* on page 30).

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Images are missing on my camera.

Remove the memory card and see if the images are stored in internal memory. If so, transfer the images to the memory card (see **Move Images to Card** under *Using the Playback Menu* on page 30).

The Power light is on but the Image Display is off, or the camera seems stuck and won't operate.

- Press **Live View/Playback** / to reactivate the Image Display.
- Reset the camera (see *Resetting the camera* on page 47).

The camera responds sluggishly when trying to review images.

See *Storage* on page 59 and *Memory capacity* on page 60 for tips about memory cards.

Video recording terminates abruptly. The video is saved successfully, but it is shorter than expected.

- Choose a lower resolution/compression combination for the video (see **Video Quality** under *Using the Capture Menu* on page 23).
- Replace your memory card with a faster card. Look for cards marked High Performance, Pro, Ultra, or High Speed.

Video recording terminates abruptly and the video will not play back.

Reformat the card (see *Install and format an optional memory card* on page 10).

The camera gets warm (or even hot) to the touch.

This is normal. However, if anything seems out of the ordinary, turn off the camera, remove it from the dock, and allow the camera to cool. Then examine the camera and the battery for signs of possible damage.

For best image quality, turn off the camera when not using. Always store the camera in a cool place.

My camera stalls when establishing a connection to the computer.

- Ensure that the USB cable is properly connected to the camera dock and computer.
- Try connecting the USB cable to another USB port on the computer.
- Turn the camera off, then on again. If that does not fix the problem, reset the camera (see *Resetting the camera* on page 47).
- If the problem persists, contact HP Support (see *Product support* on page 52).

I cannot transfer images from the camera to my computer.

- Either install the HP Photosmart Software (see *Install the software* on page 10), or see *Transferring images without HP Photosmart Software* on page 38.
- Set your camera to act as a **Disk Drive** (see *Connecting to the computer* on page 39).

I get an error message when transferring images to my computer.

A power surge or electrostatic discharge may have affected the camera. Close the HP Photosmart Transfer Software, remove the camera from the dock, and reset the

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camera (see *Resetting the camera* on page 47). Then restart the image transfer process (see *Transferring images with HP Photosmart Software* on page 38).

My camera shuts down unexpectedly, or displays a "Bad Data Access Error" message on the Image Display.

- A power surge or electrostatic discharge may have affected the camera. Remove the battery and reset the camera (see *Resetting the camera* on page 47). Then reinstall the battery and turn on the camera.
- If that does not work, try replacing the battery.

I am having a problem installing or using the HP Photosmart Software.

- Make sure your computer meets the minimum system requirements (see *About the HP Photosmart Software* on page 11).
- Refer to the HP Customer Care website: www.hp.com/support.

How can I get professional-quality prints if I don't have a photo printer?

Use the **Buy Prints Online** feature on the **Photosmart Express Menu** (see *Buying prints online* on page 43).

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9 Product support

Use this section to find support information for your digital camera, including links to helpful websites and an overview of the support process.

Helpful websites

Camera tips, product registration, newsletter subscriptions, driver and software updates, purchase HP supplies and accessories	www.hp.com www.hp.com/photosmart (English only)
Customers with disabilities	www.hp.com/hpinfo/community/accessibility (English only)
HP Total Care, driver and software updates, support information	www.hp.com/support

Getting assistance

To get the best from your HP product, consult the following standard HP support offerings:

1. Consult the product documentation.
   - Review *Troubleshooting* on page 47 in this document.
   - Review the electronic Help section within the software.
   - Refer to the camera's Help screens.
2. Visit the HP Customer Care website at www.hp.com/support, or contact the store where you purchased this camera. The HP Customer Care website is available to all HP customers. The HP Customer Care website is the fastest source of up-to-date product information and expert assistance, including:
   - Fast e-mail access to qualified online support specialists.
   - Software and driver updates for your camera.
   - Valuable product and troubleshooting information for technical issues.
   - Proactive product updates, support alerts, and HP newsletters (available when you register your camera).
3. HP support by phone. Support options and fees vary by product, country/region, and language. For a list of support conditions and phone numbers, visit www.hp.com/support.
4. Post-warranty period. After the limited warranty period, help is available online at www.hp.com/support.

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5. Extending or upgrading your warranty. If you would like to extend or upgrade your camera's warranty, please contact the store where you bought the camera or check the HP Care Pack offers at www.hp.com/support.
6. If you already purchased an HP Care Pack Service, please check the support conditions on your contract.

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A Managing batteries

Your camera uses a rechargeable HP Photosmart R07 Lithium Ion battery (L1812A/L1812B).

Top points about batteries

Always insert the battery in the camera correctly (see *Install the battery* on page 8). If the battery is inserted improperly, the compartment door may close but the camera will not operate.

- New rechargeable Lithium Ion batteries are shipped partially charged. Fully charge them before first use.
- If you do not intend to use your camera for more than two months, leave the camera connected to the HP AC adapter via the dock. The camera will top off the battery periodically to ensure that the camera is always ready for use.
- A rechargeable Lithium Ion battery can be left in the camera or optional dock or quick recharger for any period of time without harm.
- If a rechargeable Lithium Ion battery has not been used for more than two months, recharge it before using it again. Fully recharge Lithium Ion batteries every six months to a year to prolong their useful life.
- The performance of Lithium Ion batteries degrades over time, especially if stored and used at high temperatures. If battery life is unacceptably short, replace the battery.
- The performance of Lithium Ion batteries will decrease as the temperature drops. To improve battery performance, keep the camera or batteries stored in a warm inside pocket when in a cold environment.

Extending battery life

To conserve battery power, the Image Display turns off after 45 seconds by default. Pressing any button wakes up the camera. After five minutes of inactivity, the camera turns off.

To further extend battery life:

- Set **Display Brightness** to **Low** (see **Display Brightness** under *Using the Setup Menu* on page 45).
- Change the **Display Timeout** value to a shorter interval (see **Display Timeout** under *Using the Setup Menu* on page 45).
- Set your camera to **Auto Flash** (see **Auto Flash** under *Setting the flash* on page 19).
- Use optical zoom sparingly.
- If you are turning on the camera only to view images, hold down / while turning on the camera to start in **Playback** without extending the lens.
- Connect the camera to the HP AC power adapter via the dock when you transfer or print.

Safety precautions for using batteries

- Do not place the battery in fire or heat the battery. Always store charged batteries in a cool location.
- Do not connect the positive and negative terminals of the battery to each other with any metal object.
- Do not carry or store the battery with metal objects. Do not drop the battery into a change-filled pocket.
- Do not pierce the battery or subject it to strong impacts or shocks.
- Do not solder directly onto the battery.
- Do not allow the battery to get wet.
- Do not disassemble or modify the battery.

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- Immediately discontinue use of the battery if, while using, charging, or storing the battery, the battery emits an unusual smell, feels excessively hot (note that it is normal for the battery to feel warm), changes color or shape, or appears abnormal in any other way.
- In the event the battery leaks and the fluid gets into one's eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

Caution Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Power indicators

The power indicators are most accurate after a few minutes of use. The following table explains the meaning of these indicators.

Icon	Description
	Battery has more than 70 percent energy remaining.
	Battery has 30 to 70 percent energy remaining.
	Battery has 10 to 30 percent energy remaining.
	Battery level is low. **Live View** is disabled but you can still review images in **Playback** and use the menus.
Blinking	Battery is depleted. Camera will power down.
	Camera is operating on AC power.
Animated battery filling up	Camera is operating on AC power and is charging the battery.
	Camera has successfully completed battery charging and is operating on AC power.

Note If the camera is without a battery for a prolonged period, the clock may be reset and you may be prompted to update it the next time you power on the camera.

Number of shots per battery type

The following table shows the minimum, maximum, and average number of shots that may be obtained using the rechargeable HP Photosmart R07 Lithium Ion battery.

Number of Shots			
Minimum	**Maximum**	**Average**	**CIPA**
90	190	140	160

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For Minimum, Maximum, and Average numbers, four pictures are taken per session with at least a 5 minute break between sessions. In addition:

- The minimum number of shots is obtained with extensive use of **Live View** (30 seconds per picture), **Playback** (15 seconds per picture), and **Flash On**. Optical zoom (both directions) is used on 75% of the shots.
- The maximum number of shots is obtained with minimal use of **Live View** (10 seconds per picture) and **Playback** (4 seconds per picture). Flash and optical zoom (both directions) are used on 25% of the shots.
- The average number of shots is obtained with **Live View** used for 15 seconds per picture and **Playback** used for 8 seconds per picture. Flash and optical zoom (both directions) are used on 50% of the shots.
- The CIPA number is obtained using the standards established by the Camera and Imaging Products Association.

Recharging the Lithium Ion battery

You can recharge the HP Photosmart R07 Lithium Ion battery when the camera is in the dock using the AC adapter or with the optional quick recharger. You can also charge the battery in an optional HP Photosmart dock that has a battery bay.

The following table shows the average recharge time for a fully discharged battery, based on recharge location.

Charge location	Average charge time	Signals
In camera connected to the HP AC power adapter through the dock	2–3 hours	**Charging:** Camera's battery charging light blinks and the animated battery icon is displayed. **Charging complete:** Camera's battery charging light turns on solid and the battery gauge changes to on the Image Display.
In camera connected to the HP AC power adapter through an HP Photosmart dock	2–3 hours	**Charging:** Dock's camera battery charging light blinks. **Charging complete:** Dock's camera battery charging light turns on solid.
In battery bay of the HP Photosmart 6221 Premium Camera Dock	2.5–3.5 hours	**Charging:** Dock's battery bay light blinks. **Charging complete:** Dock's battery bay light turns on solid.
In an HP Photosmart R-Series quick recharger	1 hour	**Charging:** Quick recharger light is yellow. **Charging complete:** Quick recharger light is green.

Safety precautions for recharging batteries

You can recharge a Lithium Ion battery in the camera or purchase an optional dock with battery bay or a quick recharger. These devices may be warm while charging a Lithium Ion battery. This is normal. However, you should follow the safety precautions below.

- Do not charge any other battery than the HP Photosmart R07 Lithium Ion battery in the camera, dock, or quick recharger.
- Insert the Lithium Ion battery in the correct orientation.
- Use the camera, dock, or quick recharger in a dry location only.
- Do not charge a Lithium Ion battery in a hot location, such as in direct sunlight or near a fire.
- When recharging a Lithium Ion battery, do not cover the camera, dock, or quick recharger.

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- Do not operate the camera, dock, or quick recharger if the Lithium Ion battery appears damaged.
- Do not disassemble the camera, dock, or quick recharger.
- Unplug the HP AC power adapter or quick recharger from the electrical outlet before cleaning the power adapter or quick recharger.
- After extensive use, the Lithium Ion battery may begin to swell. If it becomes difficult to insert the battery into or remove the battery from the camera, dock, or quick recharger, discontinue use of the battery and replace it with a new one. Please recycle the old battery.

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B Specifications

Resolution	Still pictures: ● 10MP (3664 by 2752) effective pixel count ● 10.5MP (3766 by 2801) total pixel count Video clips (VGA—640 by 480 total pixel count; QVGA—320 by 240 total pixel count): ● **VGA** ★★★ (Default)—24 frames/sec ● **VGA** ★★—24 frames/sec ● **QVGA** ★—24 frames/sec
Sensor	Diagonal 9.47 mm (1/17-type, 4:3 format) CCD
Color depth	42 bit (14 bits by 3 colors). 42 bit images are transformed into an optimized 24 bit image and stored in the JPEG format. This transformation results in no discernible change to color or detail in the stored image, and allows the image to be read by computers.
Lens	Focal length: ● Wide—7.78 mm ● Telephoto—22.06 mm ● 35 mm equivalent—35 mm to 104 mm F-number: ● Wide—f/2.8 to f/7.8 ● Telephoto—f/5 to f/8.5
Viewfinder	None
Zoom	● 3x optical zoom with 10 positions between wide and telephoto ● 10x digital zoom
Focus	Focus settings: **Normal Focus** (Default), **Macro**, **Auto Macro**, **Infinity**, **Manual Focus** **Normal Focus** (Default): ● Wide—500 mm (19.7 in) to infinity ● Telephoto—600 mm (23.6 in) to infinity **Macro**—Wide, 100 mm to 1 m (4.7 in to 39.4 in) **Auto Macro**—Automatically shifts into **Macro** when that is optimal **Infinity**—Focus is fixed at infinity **Manual**—Focus is user-adjustable
Shutter speed	1/2000 to 16 seconds
Built-in flash	Yes, 6-second typical recharge time (8-second maximum recharge time at power-on)

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(continued)

Flash working range	• Zoom Position Wide—Maximum with **ISO Speed** set to **Auto ISO**: 4.75 m (15.6 ft) • Zoom Position Telephoto—Maximum with **ISO Speed** set to **Auto ISO**: 4.75 m (15.6 ft) • Uniformity—Corner intensity > 55% of Center intensity (Lux Seconds)
Image Display	7.62 cm (3.0 in) color LTPS TFT LCD with backlight; 230,400 pixels (960 by 240) total pixel count
Storage	• 32MB internal flash memory, not all of which is available for storing images and video clips (see *Memory capacity* on page 60). • Slot for memory card. • This camera supports standard and high speed, HP-branded Secure Digital (SD) memory cards, 8MB to 2GB. • The number of images or video clips that can be saved in memory depends on the **Image Quality** and **Video Quality** settings (see *Memory capacity* on page 60).
Compression format	• JPEG (EXIF) for still images • EXIF 2.2 for still images with embedded audio • MPEG1 for video clips
Interfaces	Dock connector—Foxlink FPA25420–HP, which connects to either: • HP Photosmart 6220 camera dock (in-box with camera) • HP Photosmart 6221 premium camera dock
Standards	• PTP • USB—MSDC and SIDC • JPEG • MPEG1 • DPOF • EXIF • DCF • DPS
External body dimensions	Measurements with camera off and lens retracted (width, depth, height): • 96 mm (W) by 25.6 mm (D) by 62 mm (H) • 3.78 in (W) by 1.00 in (D) by 2.44 in (H)
Weight	170 grams (5.99 ounces) without battery
Power	Typical power usage: 2.1 Watts (with Image Display on). 7.6 Watts peak power usage. Power sources include: • One rechargeable HP Photosmart R07 Lithium Ion battery for HP Photosmart R-series cameras • HP AC power adapter (5 Vdc, 2000 mA, 10 W) with either the HP Photosmart 6220 dock (included) or (optional) HP Photosmart 6221 or 6222 dock
Temperature range	Operational: 0° to 50° C (32° to 122° F) at 15% to 85% relative humidity Storage: –30° to 65° C (–22° to 149° F) at 15% to 90% relative humidity

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Memory capacity

Not all 32MB of internal memory is available for storing images, because some memory is used for internal camera operations. The actual file sizes and number of still images that can be stored in internal memory or on a memory card will vary depending on the content of each still image and the length of any associated audio clip.

Image quality

The following table lists the approximate number and average size of still images that can be stored in internal memory when the camera is set to different **Image Quality** settings (see **Image Quality** under *Using the Capture Menu* on page 23).

10MP ★★★	7 images (4.44MB each)
Normal (10MP ★★**)** (Default)	10 images (2.93MB each)
6MP ★★	16 images (1.78MB each)
3MP ★★	28 images (918KB each)
VGA ★★	201 images (145KB each)
Custom...	Number of images depends upon resolution and compression selections

Note The values shown are for images without audio clips. Sixty seconds of audio adds 330KB to the file size.

Video quality

The following table lists the approximate number of seconds of video clips that can be stored in internal memory when the camera is set to different **Video Quality** settings (see **Video Quality** under *Using the Capture Menu* on page 23).

Normal (VGA ★★★**)**—(Default) 24 frames/sec	24 seconds
VGA ★★—24 frames/sec	53 seconds
QVGA ★—24 frames/sec	108 seconds

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Index

A
Action mode 20
Adaptive Lighting 24, 27
adding borders 35
AE Metering 25
Aperture Priority mode 20
apply artistic effects 34
arrow buttons 6
artistic effects 34
assistance 52
audio clips 13, 33
Auto Focus Area 25
Auto Macro setting 17
Auto mode 20

B
battery
- charge 9
- conserving 54
- door 7
- install 8
- shots per 55
- top points about use 54

Beach mode 20
blinking lights on camera 6, 7
borders 35
Bracketing 24
Burst setting 24, 27

C
camera
- dimensions 59
- parts 6, 7, 8
- reset 47
- specifications 58
- turn on/off 9
- weight 59

Capture Menu 23
color depth 58
color of images 24, 25
colors 35
compression format 59
computer, connect to 38, 39
Contrast 26

D
Date & Time 9, 45
Date & Time Imprint 26
deleting images 7, 31
Design Gallery 34
digital zoom 18, 45
dimensions 59
direct print 39
Display Brightness 45
Display Timeout 45
dock 8
Document mode 20

E
e-mail images 43
exposure 16, 21
Exposure Compensation 23, 24, 27

F
F-number 58
Favorites 42
flash
- red-eye removal 19, 23
- working range 59

Flash button 6
focal length 58
focus
- auto focus 14
- Auto Focus Area 25
- brackets 14
- focus lock 16
- Manual Focus 17
- optimizing 15
- settings 17, 58

Focus Assist light 45
Focus button 6
format memory card 10

G
getting assistance 52

H
HP Photosmart Express 41, 42
HP Photosmart Software 10, 11

I
Image Display 7
Image Info 32
Image Quality 24, 60
images
- Contrast 26
- Date & Time Imprint 26
- deleting 31
- Image Quality 24, 60
- magnifying 30
- number remaining 13
- Panorama mode 21
- per battery 55
- sending 44
- Sharpness 25
- shooting modes 19
- transfer to computer 38
- White Balance 24

Infinity focus 17
install memory card 10
install software 10
Instant Review 14, 21, 27, 45
interfaces 59
internal memory 13, 60
ISO Speed 25, 28

L
Landscape mode 20
Language 9, 46
LEDs 6, 7
lights on camera 6, 7
Lithium Ion battery 54, 56
Live View/Playback button 6

M
Macro focus 15, 17
Magnify control 6
magnifying images 30
Manual focus 17
Manual mode 21
memory
- capacity 60
- card 13
- card door 7

memory card 10, 59
Menu/OK button 6
menus
- Capture 23
- Design Gallery 34
- Photosmart Express 41

Downloaded from ManualsCamera.com Manuals

Playback 30
Setup 45
microphone 7
modifying colors 35
Move Images to Card 31
My Mode 21, 22

N
Night Portrait mode 20
Night Scenery mode 20
Normal Focus 15, 17
number of
pictures remaining 13
still images 60

O
on/off 9
ON/OFF button 6
online
destinations 43
print buying 43
optical zoom 18

P
Panorama mode 20, 21, 33
parts of camera 6, 7, 8
Photosmart Express Menu
buying prints online 43
marking images for printing 42
sharing images 43
tagging images as Favorites 42
pictures 13, 26
Playback 29
Playback Menu 30
Portrait mode 20
power
indicators 55
light 6
ON/OFF button 6
usage 59
preview Panorama 33
print images 39, 41
prints, buy online 43
problems and solutions 47
product support 52

R
range, focus settings 17
record
audio clips 33
video clips 14
red-eye removal 19, 23, 36
Region 9
remaining pictures count 13
removing red eyes 23, 36
reset camera 47
Reset Settings 46
resolution 58
reviewing images 29

S
safety precautions for batteries 54, 56
Saturation 25
Saved Settings, My Mode 22
selecting images for destinations 43, 44
selecting images for printing 42
Self-Timer
light 7
setting 23, 26
sending individual images 43, 44
set date and time 9
setting up destinations 43
settings reset 46
Setup Menu 45
Share button 6
share pictures 41
Sharpness 25
shooting mode 19
Shutter button 6, 14
Shutter Priority mode 21
shutter speed 21, 58
slideshow 32
Snow mode 20
software install 10
solving problems 47
sounds of camera 45
Sounds Volume 45
space remaining in memory 13
specifications 58
Steady Photo mode 20
Stitch Panorama 33
storage 59
Sunset mode 20
support process 52

T
Theatre mode 20
Thumbnails 30
Thumbnails control 6
Time & Date 9, 45
transfer images 38
troubleshooting 47
turn on/off power 9
TV Configuration 46

U
USB configuration 39, 45

V
Video button 6
video clips 14, 24, 60
Video Quality 24, 60
View Slideshow 32
viewing thumbnails 30

W
websites 52
weight 59
White Balance 24, 28

Z
zoom 17, 18, 58
Zoom lever 6

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